

ABSTRACT

A control loop for sensing the fluctuation of the source voltage ( $V_0$ ) of a power amplifier (3) to feed it back to a switching regulator (5) is provided as well as a control loop to feed it forward to the switching regulator (5) by using PWM signal serving as the source for drive control of the power amplifier (3). The combination of feedback control and feedforward control more improves the precision of control than by just feedback control and results in an effective suppression of the fluctuation of the source voltage. The control can be carried out more simply than by the correction of the fluctuation of the source voltage through digital operation.